RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/593,383
Source: IFW
Date Processed by STIC: 9/27/06

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 09/27/2006
PATENT APPLICATION: **US/10/593,383** TIME: 10:24:14

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09272006\J593383.raw**

```
      3 <110> APPLICANT: BioVentures, Inc.
      4       Dawson, Elliot P.
      5       Womble, Kristie E.
      7 <120> TITLE OF INVENTION: Method and Substances for Isolating miRNAs
      9 <130> FILE REFERENCE: 16304-1US
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/593,383
C--> 11 <141> CURRENT FILING DATE: 2006-09-19
     11 <150> PRIOR APPLICATION NUMBER: 60/709,861
     12 <151> PRIOR FILING DATE: 2005-08-19
     14 <150> PRIOR APPLICATION NUMBER: PCT/US06/32264
     15 <151> PRIOR FILING DATE: 2006-08-18
     17 <160> NUMBER OF SEQ ID NOS: 41
     19 <170> SOFTWARE: PatentIn version 3.2
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 18
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Artificial Sequence
     26 <220> FEATURE:
     27 <223> OTHER INFORMATION: synthetic adapter segment
     29 <400> SEQUENCE: 1
     30 atttaggtga cactatag                                              18
     33 <210> SEQ ID NO: 2
     34 <211> LENGTH: 20
     35 <212> TYPE: DNA
     36 <213> ORGANISM: Artificial Sequence
     38 <220> FEATURE:
     39 <223> OTHER INFORMATION: synthetic adapter segment
     41 <400> SEQUENCE: 2
     42 ccctatagtg agtcgtatta                                            20
     45 <210> SEQ ID NO: 3
     46 <211> LENGTH: 22
     47 <212> TYPE: DNA
     48 <213> ORGANISM: Artificial Sequence
     50 <220> FEATURE:
     51 <223> OTHER INFORMATION: synthetic miRNA binding segment
     53 <400> SEQUENCE: 3
     54 aactatacaa cctactacct ca                                          22
     57 <210> SEQ ID NO: 4
     58 <211> LENGTH: 22
     59 <212> TYPE: DNA
     60 <213> ORGANISM: Artificial Sequence
     62 <220> FEATURE:
     63 <223> OTHER INFORMATION: synthetic miRNA binding segment
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65 <400> SEQUENCE: 4
66 aaccacacaa cctactacct ca 22
69 <210> SEQ ID NO: 5
70 <211> LENGTH: 22
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: synthetic miRNA binding segment
77 <400> SEQUENCE: 5
78 aaccatacaa cctactacct ca 22
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 21
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: synthetic miRNA binding segment
89 <400> SEQUENCE: 6
90 actatgcaac ctactacctc t 21
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 21
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: synthetic miRNA binding segment
101 <400> SEQUENCE: 7
102 actatacaac ctcctacctc a 21
105 <210> SEQ ID NO: 8
106 <211> LENGTH: 22
107 <212> TYPE: DNA
108 <213> ORGANISM: Artificial Sequence
110 <220> FEATURE:
111 <223> OTHER INFORMATION: synthetic miRNA binding segment
113 <400> SEQUENCE: 8
114 aactatacaa tctactacct ca 22
117 <210> SEQ ID NO: 9
118 <211> LENGTH: 21
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: synthetic miRNA binding segment
125 <400> SEQUENCE: 9
126 actgtacaaa ctactacctc a 21
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 21
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: synthetic miRNA binding segment
137 <400> SEQUENCE: 10

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```
    138 acagcacaaa ctactacctc a                                              21
    141 <210> SEQ ID NO: 11
    142 <211> LENGTH: 22
    143 <212> TYPE: DNA
    144 <213> ORGANISM: Artificial Sequence
    146 <220> FEATURE:
    147 <223> OTHER INFORMATION: synthetic miRNA binding segment
    149 <400> SEQUENCE: 11
    150 cacaagttcg gatctacggg tt                                             22
    153 <210> SEQ ID NO: 12
    154 <211> LENGTH: 22
    155 <212> TYPE: DNA
    156 <213> ORGANISM: Artificial Sequence
    158 <220> FEATURE:
    159 <223> OTHER INFORMATION: synthetic miRNA binding segment
    161 <400> SEQUENCE: 12
    162 cttcagttat cacagtactg ta                                             22
    165 <210> SEQ ID NO: 13
    166 <211> LENGTH: 61
    167 <212> TYPE: DNA
    168 <213> ORGANISM: Artificial Sequence
    170 <220> FEATURE:
    171 <223> OTHER INFORMATION: synthetic capture probe
    173 <400> SEQUENCE: 13
    174 atttaggtga cactatagaa actatacaac ctactacctc accctatagt gagtcgtatt     60
    176 a                                                                   61
    179 <210> SEQ ID NO: 14
    180 <211> LENGTH: 56
    181 <212> TYPE: DNA
    182 <213> ORGANISM: Artificial Sequence
    184 <220> FEATURE:
    185 <223> OTHER INFORMATION: synthetic capture probe
    188 <220> FEATURE:
    189 <221> NAME/KEY: misc_feature
    190 <222> LOCATION: (19)..(36)
    191 <223> OTHER INFORMATION: n is a, c, g, or t
    193 <400> SEQUENCE: 14
W--> 194 atttaggtga cactatagnn nnnnnnnnnn nnnnnnccct atagtgagtc gtatta         56
    197 <210> SEQ ID NO: 15
    198 <211> LENGTH: 57
    199 <212> TYPE: DNA
    200 <213> ORGANISM: Artificial Sequence
    202 <220> FEATURE:
    203 <223> OTHER INFORMATION: synthetic capture probe
    206 <220> FEATURE:
    207 <221> NAME/KEY: misc_feature
    208 <222> LOCATION: (19)..(37)
    209 <223> OTHER INFORMATION: n is a, c, g, or t
    211 <400> SEQUENCE: 15
```

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W--> 212 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnccc tatagtgagt cgtatta 57
215 <210> SEQ ID NO: 16
216 <211> LENGTH: 58
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: synthetic capture probe
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <222> LOCATION: (19)..(38)
227 <223> OTHER INFORMATION: n is a, c, g, or t
229 <400> SEQUENCE: 16
W--> 230 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnncc ctatagtgag tcgtatta 58
233 <210> SEQ ID NO: 17
234 <211> LENGTH: 59
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: synthetic capture probe
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (19)..(39)
245 <223> OTHER INFORMATION: n is a, c, g, or t
247 <400> SEQUENCE: 17
W--> 248 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnnnc cctatagtga gtcgtatta 59
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 60
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: synthetic capture probe
260 <220> FEATURE:
261 <221> NAME/KEY: misc_feature
262 <222> LOCATION: (19)..(40)
263 <223> OTHER INFORMATION: n is a, c, g, or t
265 <400> SEQUENCE: 18
W--> 266 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnnnn ccctatagtg agtcgtatta 60
269 <210> SEQ ID NO: 19
270 <211> LENGTH: 61
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: synthetic capture probe
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (19)..(41)
281 <223> OTHER INFORMATION: n is a, c, g, or t
283 <400> SEQUENCE: 19
W--> 284 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnnnn nccctatagt gagtcgtatt 60

RAW SEQUENCE LISTING DATE: 09/27/2006
PATENT APPLICATION: **US/10/593,383** TIME: 10:24:14

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09272006\J593383.raw**

286 a 61
289 <210> SEQ ID NO: 20
290 <211> LENGTH: 62
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:
295 <223> OTHER INFORMATION: synthetic capture probe
298 <220> FEATURE:
299 <221> NAME/KEY: misc_feature
300 <222> LOCATION: (19)..(42)
301 <223> OTHER INFORMATION: n is a, c, g, or t
303 <400> SEQUENCE: 20
W--> **304 atttaggtga cactatagnn nnnnnnnnnn nnnnnnnnnn nnccctatag tgagtcgtat 60**
306 ta 62
309 <210> SEQ ID NO: 21
310 <211> LENGTH: 60
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: synthetic capture probe
317 <400> SEQUENCE: 21
318 atttaggtga cactatagaa ctatacaacc tcctacctca ccctatagtg agtcgtatta 60
321 <210> SEQ ID NO: 22
322 <211> LENGTH: 63
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: synthetic capture probe
329 <400> SEQUENCE: 22
330 atttaggtga cactatagag ctacctgcac tgtaagcact tttccctata gtgagtcgta 60
332 tta 63
335 <210> SEQ ID NO: 23
336 <211> LENGTH: 60
337 <212> TYPE: DNA
338 <213> ORGANISM: Artificial Sequence
340 <220> FEATURE:
341 <223> OTHER INFORMATION: synthetic capture probe
343 <400> SEQUENCE: 23
344 atttaggtga cactatagac gcgtaccaaa agtaataatg ccctatagtg agtcgtatta 60
347 <210> SEQ ID NO: 24
348 <211> LENGTH: 62
349 <212> TYPE: DNA
350 <213> ORGANISM: Artificial Sequence
352 <220> FEATURE:
353 <223> OTHER INFORMATION: synthetic capture probe
355 <400> SEQUENCE: 24
356 atttaggtga cactatagat cacataggaa taaaaagcca taccctatag tgagtcgtat 60
358 ta 62
361 <210> SEQ ID NO: 25

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/27/2006
PATENT APPLICATION: **US/10/593,383** TIME: 10:24:15

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\09272006\J593383.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:15; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37
Seq#:16; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:17; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:17; N Pos. 39
Seq#:18; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:18; N Pos. 39,40
Seq#:19; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:19; N Pos. 39,40,41
Seq#:20; N Pos. 19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:20; N Pos. 39,40,41,42

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:26

VERIFICATION SUMMARY DATE: 09/27/2006
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Input Set : **A:\Sequence Listing.txt**
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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0